T-Pro Gradient Gel Solution kit (4-12%)

Store at RT

(JB02-B412S) 100 ml
(JB02-B412M) 500 ml

T-Pro Biotechnology

This product is for laboratory research ONLY and not for diagnostic use.

Product Overview	T-Pro Gradient Gel Solution is "ready-to-run" SDS polyacrylamide solutions polymerize into an advanced molecular sieve for the electrophoretic separation of proteins. Because of the advanced buffer chemistry used in the gel matrix solution, T-Pro Gradient Gels allow a single separating gel. No stacking gel is required, as the T-Pro Gradient Gel Solution proprietary formulation inherently stacks the protein samples during the normal electrophoresis run. Band resolution is unparalleled over a molecular range of 10 to 250 KDa. The new hybrid formulation of T-Pro Gradient Gel Solution gives these gels an increased gel strength, which allows for easier handling. T-Pro Gradient Gel Solution will work with all types of universal electrophoresis apparatus. Our gel mixtures are formulated for optimal performance in mass spectrometry-based proteomics experiments.
Features	● High gel strength - allows easier handling. ● Ready to use in less than 10-15 minutes - just add TEMED and APS to polymerize the gel. ● No stacking gel required - permits longer gel separations ● High resolution gels for protein separation across a broad molecular weight range.
Research Applications	SDS-PAGE separation of proteins Biomarker separation Recombinant protein purity analysis
Procotol	For 10mL of T-Pro Gradient Gel Solution 1) Add 10μL TEMED and gently mix solution for even distribution. 2) Add 100μL 10% APS and gently mix solution for even distribution. 3) Pour the gel solution into gel cartridge to the top of the short plate. 4) Add the comb. 5) Allow to sit for approximately 10-15 minutes for polymerization. *For larger or smaller volumes adjust the amount of T-Pro Gradient Gel Solution, TEMED, and APS added
Storage	T-Pro Gradient Gel Solution is stable for RT

Casting preparation volumes

8*10 cm

	0.75 mm (n = gels)	1.0 mm (n = gels)	1.5 mm (n = gels)
Total volume	6 ml x n	8 ml x n	11 ml x n
TEMED	6 µl x n	8 µl x n	11 µl x n
10 % APS	60 µl x n	80 µl x n	110 µl x n

10*10 cm

	0.75 mm (n = gels)	1.0 mm (n = gels)	1.5 mm (n = gels)
Total volume	8 ml x n	11 ml x n	13 ml x n
TEMED	8 µl x n	11 µl x n	13 µl x n
10 % APS	80 µl x n	110 µl x n	130 µl x n

TGS Running buffer conditions for T-Pro Gradient Gel Solution

	50V Low voltage	100V Standard
Run time	5-15 min	60-90 min

MOPS/SDS Running buffer conditions for T-Pro Gradient Gel Solution

	75V Low voltage	150V Standard
Run time	3-10 min	25-35 min

*When running 1-2 gels in the electrophoresis system, do not leave the companion module in the tank.

*Do not run different gel types (chemistry) or percentages in the same tank at the same time.

*Do not use acid or base to adjust pH of running buffer (MOPS or TGS).